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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/774,722	02/09/2004	Rui Resendes	PO-8106/PS-1135	9537	
	7590 03/09/200 ERIAL SCIENCE LLC		EXAMINER		
100 BAYER RO	OAD	SZEKELY, PETER A			
PITTSBURGH, PA 15205			ART UNIT	PAPER NUMBER	
			1796		
			MAIL DATE	DELIVERY MODE	
			03/09/2009	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary		Application	on No.	Applicant(s)				
		10/774,72	22	RESENDES ET AL.				
		Examiner		Art Unit				
		Peter Sze	kely	1796				
Period fo	The MAILING DATE of this communicationr Reply	n appears on the	cover sheet with the c	orrespondence ad	ddress			
WHIC - Exter after - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR REHEVER IS LONGER, FROM THE MAILIN asions of time may be available under the provisions of 37 C SIX (6) MONTHS from the mailing date of this communication of period for reply is specified above, the maximum statutory preserve to reply within the set or extended period for reply will, by reply received by the Office later than three months after the end patent term adjustment. See 37 CFR 1.704(b).	NG DATE OF THE FR 1.136(a). In no even on. period will apply and w statute, cause the app	IIS COMMUNICATION ent, however, may a reply be tin II expire SIX (6) MONTHS from lication to become ABANDONE	N. nely filed the mailing date of this of D (35 U.S.C. § 133).	·			
Status								
1) 又	Responsive to communication(s) filed on	29 January 200	9					
•	• •	This action is n						
3)	· · · · · · · · · · · · · · · · · · ·							
٠,١	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
Dispositi	on of Claims							
4)⊠	☑ Claim(s) <u>1-20</u> is/are pending in the application.							
•	4a) Of the above claim(s) <u>13-19</u> is/are withdrawn from consideration.							
	Claim(s) is/are allowed.							
'=								
	Claim(s) <u>3-5</u> is/are objected to.							
•	Claim(s) are subject to restriction a	and/or election re	equirement.					
	on Papers							
		uminor						
•	The specification is objected to by the Exa		O objected to by the F	Evaminer				
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.								
	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).								
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.								
	ınder 35 U.S.C. § 119							
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 								
2) Notice 3) Inform	t(s) e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-94 mation Disclosure Statement(s) (PTO/SB/08) r No(s)/Mail Date	8)	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	ate				

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DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.

2. Claims 1, 2, 6-12 and 20 are rejected under 35 U.S.C. 102(b) as being anticipated by Clayton et al. 3,337,391.

Claim Rejections - 35 USC § 103

- 3. The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.
- 4. Claims 1, 2, 6-12 and 20 are rejected under 35 U.S.C. 103(a) as being unpatentable over Clayton et al. 3,337,391.
- 5. The rejections are maintained in view of the "Response to Arguments" set forth below.

Response to Arguments

6. Applicant's arguments filed 1/29/09 have been fully considered but they are not persuasive. The compounds described by Clayton at al. are organic. Clayton et al. call them "organic titanium compound"-s in column 1, line 26. According to "the Condensed Chemical Dictionary, Tenth Edition, Revised by Gessner G. Hawley, page 762, line 13, organometallic compounds are organic. Furthermore, the coating process of Clayton et al. is the same as the pre-reaction process of applicants', namely admixing the organic compound in solvent, in this case benzene, adding it to the silica and letting the solvent evaporate. See column 1, lines 61-70. Since Clayton et al. state that the

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organometallic compound is capable of reacting with the siliceous surface (column 1, lines 36-38) it is fair to assume that under the same conditions the same process will occur. The rejections stand.

7. All other rejections are maintained in view of applicants' arguments.

Allowable Subject Matter

8. Claims 3-5 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Conclusion

9. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

10. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Peter Szekely whose telephone number is (571) 272-1124. The examiner can normally be reached on 6:10 a.m.-4:40 p.m. Tuesday-Friday.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Harold Pyon can be reached on (571) 272-1498. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Peter Szekely/ Primary Examiner, Art Unit 1796

/P. S./ Primary Examiner, Art Unit 1796 3/5/09